

Cumulative Risk Illustrated



Beer = .05



Whiskey = .06



Rum = .07



Tequila = .07



Wine = .06

Total = .31



If we only sample each type of drink without knowing how many different types of drinks he drank, then this man would NOT be legally impaired!

When we initially sample a potential release, we use protective screening levels to account for potential cumulative effects should multiple carcinogens be present.

Once we have fully characterized the release, we set cleanup levels for only the chemicals present.

Cleanup Rule [ARM 16.56.607(4)(b)] defines acceptable risks as:

Carcinogens = 1×10^{-5} Cancer Risk

Non-carcinogens = 1.0 Hazard Index